

Notice of Allowability

Application No.

10/767,001

Examiner

Christopher E. Lee

Applicant(s)

ZHANG ET AL.

Art Unit

2111

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE filed on 13th of June 2007.
2. ☒ The allowed claim(s) is/are 1-24.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


CHRISTOPHER E. LEE
PRIMARY EXAMINER

DETAILED ACTION***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114 based on the Application No. 10/767,001, including the fee set forth in 37 CFR 1.17(e), was filed in this Application after final
5 rejection, which the request is acceptable and an RCE has been established. Since this Application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office Action has been withdrawn pursuant to 37 CFR 1.114. Applicants' submission filed on 21st of May 2007 has been entered. Claims 1, 9, 19, and 24 have been amended; no claim has been canceled; and no claim has
10 been newly added since the Final[2] Office Action was mailed on 19th of March 2006. Currently, claims 1-24 are pending in this Application.

Allowable Subject Matter

2. Claims 1-24 are allowed.
3. The following is an examiner's statement of reasons for allowance:
- 15 With respect to claims 1, 9, and 19, the claim limitations of the respective claims 1, 9, and 19, are deemed allowable over the prior art of record as the prior art fails to teach or suggest that receiving an indication that information is to be transferred from a device to a bus in a first clock cycle and reading a bus grant indication in the first clock cycle , i.e., said receiving operation and said reading operation are performed within the single clock cycle.
- 20 The claims 2-8 are dependent claims of the claim 1.
- The claims 10-18 are dependent claims of the claim 9.
- The claims 20-24 are dependent claims of the claim 19.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the

issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's
5 disclosure.

Honda Keiji [JP 11-031066] discloses buffer control system.

Moyer [US 7,096,307 B2] discloses shared write buffer in a peripheral interface and method of operating.

10 Kuo et al. [US 6,247,089 B1] disclose efficient data loading scheme to minimize PCI bus arbitrations delays and wait states.

Qureshi et al. [US 6,173,349 B1] disclose shared bus system with transaction and destination ID.

Cohen et al. [US 6,073,199 A] disclose history-based bus arbitration with hidden re-arbitration during wait cycles.

15 Lange [US 5,978,878 A] discloses selective latency reduction in bridge circuit between two busses.

Ajanovic [US 5,758,166 A] discloses method and apparatus for selectively receiving write data within a write buffer of a host bridge.

20 Wichman et al. [US 5,712,991 A] disclose buffer memory for I/O writes programmable selective.

Nguyen et al. [US 5,450,547 A] disclose bus interface using pending channel information stored in single circular queue for controlling channels of data transfer within multiple FIFO devices.

The Examiner refers to Honda Keiji [JP 11-031066] reference as a prior art made of record and not relied upon the claim rejection(s) in the instant Office Action, and it is referred to the original copy of foreign reference in foreign language (i.e., Japanese). The Examiner attaches a machine translated copy of the reference for the convenience of the Applicants.

- 5 However, the Examiner cautions the Applicants that the Office is not responsible for any erroneous interpretation resulting from inaccuracies between the original foreign language reference and the machine translation of the reference, as the machine translation may not reflect the original precisely.

- 10 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher E. Lee whose telephone number is 571-272-3637. The examiner can normally be reached on Monday through Friday, 9:30am - 6:00pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark H. Rinehart can be reached on 571-272-3632. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

- 15 Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private
- 20 PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christopher E. Lee
Primary Patent Examiner
Art Unit 2111



/CEL/